

Title (en)

METHOD AND DEVICE FOR DOSING SMALL VOLUMES OF LIQUID

Title (de)

VERFAHREN UND VORRICHTUNG ZUM DOSIEREN KLEINER FLÜSSIGKEITSVOLUMEN

Title (fr)

PROCEDE ET DISPOSITIF POUR DOSER DE PETITS VOLUMES DE LIQUIDES

Publication

**EP 1507592 A1 20050223 (DE)**

Application

**EP 03718583 A 20030512**

Priority

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Abstract (en)

[origin: WO03099442A1] The invention relates to a method for dosing a volume of liquid (VF) of less than 1 ml that is to be dispensed, by means of a dosing pump, in particular a pipette (2). According to said method, a tip (13) is completely filled with a liquid and contains the liquid (16) to be dispensed at least in the vicinity of its outlet (13a), a volume of gas (VL) is drawn into the tip (13) via the outlet (13a) and a volume corresponding to the sum of the volume of liquid (VF) to be dispensed and the volume of gas (VL) is then supplied to the tip (13) in such a way that the volume of liquid (VF) is dispensed via the outlet (13a) in a contactless manner. The device comprises a plurality of dosing pumps that can be simultaneously actuated, in particular pipettes (2), which can be actuated by an injection plunger (6), in addition to a motor (1), which drives the injection plungers (6) and also a valve (3), which is located between the dosing pump and its respective tip (13) in order to fill each system completely with liquid without any gas.

IPC 1-7

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IPC 8 full level

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See references of WO 03099442A1

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